

1. (Amended) A process for producing antibodies to cholesteryl ester transfer protein (CETP) in a mammal that comprises the steps of:

A1 Sub C1 (a) immunizing said mammal with an inoculum containing a vehicle in which is dissolved or dispersed a recombinant DNA molecule comprising a DNA sequence that contains (i) a sequence encoding a CETP immunogen linked to (ii) a promoter sequence that controls the expression of said CETP immunogen DNA sequence in said mammal, said CETP immunogen [being] comprising an antigenic carrier to which is covalently bonded one or more immunogenic polypeptides [having] comprising a CETP amino acid residue sequence of about 10 to about 30 residues [, said immunization providing an amount of said recombinant DNA molecule sufficient to induce antibodies to CETP]; and

(b) maintaining said immunized mammal for a time period sufficient for the production of antibodies that bind to CETP, thereby producing antibodies.

A2 Sub B3 3. (Amended) A process for increasing the concentration of HDL cholesterol in the blood of a mammal whose

blood contains cholesteryl ester transfer protein (CETP) that comprises the steps of:

(a) immunizing said mammal with an inoculum containing a vehicle in which is dissolved or dispersed a recombinant DNA molecule comprising a DNA sequence that contains (i) a sequence encoding a CETP immunogen linked to (ii) a promoter sequence that controls the expression of said CETP immunogen DNA sequence in said mammal, said CETP immunogen [being] comprising an antigenic carrier to which is covalently bonded one or more immunogenic polypeptides [having] comprising a CETP amino acid residue sequence of about 10 to about 30 residues [, said immunization providing an amount of said recombinant DNA molecule sufficient to induce antibodies to CETP]; and

(b) maintaining said immunized mammal for a time period sufficient for said CETP immunogen to be expressed and for the production of antibodies that bind to CETP and lessen the transfer of cholesteryl esters from HDL, thereby reducing the HDL concentration.

9. (Amended) The process according to claim 8 wherein said exogenous antigenic carrier polypeptide is selected from

A3 the group consisting of [hepatitis B core protein]
thyroglobulin, tetanus toxoid, and diphtheria toxoid.

Sub C7
A4 17. (Amended) An inoculum that comprises a recombinant DNA molecule comprising a DNA sequence that contains (i) a sequence encoding a CETP immunogen linked to (ii) a promoter sequence that controls the expression of said CETP immunogen DNA sequence in a mammal, said recombinant DNA molecule being dissolved or dispersed in an effective amount in a vehicle, said CETP immunogen comprising an antigenic carrier to which is covalently bonded one or more immunogenic polypeptides comprising a CETP amino acid residue sequence of about 10 to about 30 residues.

Please add new claims 22-31 as follows:

A5 --22. The process according to claim 1 wherein said one or more immunogenic polypeptide is of a sequence selected from the group consisting of 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 29, 32, 33, 34, 35, 36, 37 and 50.

Sub B1
23. The process according to claim 3 wherein said one or more immunogenic polypeptide is of a sequence selected from

Sub B¹ But the group consisting of 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 29, 32, 33, 34, 35, 36, 37 and 50.

24. The process according to claim 6 wherein said encoded human CETP immunogenic polypeptide comprises a sequence selected from the group consisting SEQ ID NOs:8-13 and 29.

Sub C⁹ 25. The process according to claim 7 wherein said encoded rabbit CETP immunogenic polypeptide comprises a sequence selected from the group consisting SEQ ID NOs:2-7 and 50.

A⁵ 26. The process according to claim 3 wherein said recombinant DNA molecule encodes monkey CETP as said immunogenic polypeptide.

27. The process according to claim 26 wherein said encoded rabbit CETP immunogenic polypeptide comprises a sequence selected from the group consisting SEQ ID NOs: 32-36 and 37.

Sub B² 28. The inoculum according to claim 17 wherein said one or more immunogenic polypeptide is of a sequence selected

Sub B2
from the group consisting of 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 29, 32, 33, 34, 35, 36, 37 and 50.

Sub C4
A5
29. A recombinant DNA molecule comprising a DNA sequence that contains (i) a sequence encoding a cholesteryl ester transfer protein (CETP) immunogen linked to (ii) a promoter sequence that controls the expression of said CETP immunogen DNA sequence in a mammal, said CETP immunogen being comprised of an exogenous antigenic carrier to which is covalently bonded one or more immunogenic polypeptides of a CETP amino acid residue sequence of about 10 to about 30 residues.

30. The recombinant DNA according to claim 29 wherein said promoter sequence is a cytomegalovirus immediate-early promoter sequence.

Sub B3
31. The recombinant DNA according to claim 30 wherein one or more immunogenic polypeptide is of a sequence selected from the group consisting of 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 29, 32, 33, 34, 35, 36, 37 and 50.--
